

IN THE CLAIMS

Please amend the following claims. Please cancel claims 23 and 24 and add new claims 25-30.

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1 12. (Amended) [A heat removal system in a portable computer for removing
2 heat from a heat generating device, said heat removal system] An apparatus
3 comprising:
4 a keyboard having a thermally conductive support plate, said support
5 plate having a substantially planar bottom surface;
6 a flat heat pipe attached to said bottom surface of said keyboard support
7 plate, [said] a heat generating device thermally coupled to said flat heat pipe;
8 and
9 air moving means for producing an air flow through a housing, at least a
10 portion of said housing being thermally coupled to said flat heat pipe.

1 13. (Amended) The [heat removal system] apparatus of claim 12, wherein
2 said flat heat pipe comprises a plurality of micro-channels that are arranged
3 parallel to one another.

1 14. (Amended) The [heat removal system] apparatus of claim 12, wherein
2 said air moving means comprises a fan.

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1 15. (Amended) The [heat removal system] apparatus of claim 12, wherein
2 said [air moving means] housing includes at least one fin disposed in the path of
3 said air flow, said heat pipe thermally coupled to said fin.

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1 16. (Twice Amended) The [heat removal system] apparatus of claim 14
2 further comprising a control circuit for switching said fan on or off in response to
3 a temperature measurement on said keyboard.

1 17. (Twice Amended) The [heat removal system] apparatus of claim 14
2 further comprising a control circuit for switching said fan on or off in response to
3 a temperature measurement of said heat generating device.

1 18. (Twice Amended) The [heat removal system] apparatus of claim 14
2 further comprising:
3 a temperature sensing device attached to said keyboard; and
4 a controller for receiving a signal from said temperature sensing device,
5 said controller switching said fan on or off in response to said signal.

1 19. (Twice Amended) The [heat removal system] apparatus of claim 14
2 further comprising:
3 a temperature sensing device attached to said heat generating device; and

4 a controller for receiving a signal from said temperature sensing device,
5 said controller switching said fan on or off in response to said signal.

1 20. (Twice Amended) [A heat removal system in a portable computer for
2 removing heat from a heat generating device, said heat removal system] An
3 apparatus comprising:

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4 a keyboard having a thermally conductive support plate, said support
5 plate having a substantially planar bottom surface;

6 a flat heat pipe attached to said bottom surface of said keyboard support
7 plate, [said] a heat generating device thermally coupled to said flat heat pipe;

8 a fan for producing air flow through a fan housing; and

9 a thermally conductive fin located within said air flow, said heat pipe
10 thermally coupled to said fin.

1 21. (Amended) The [heat removal system] apparatus of claim 20 further
2 comprising:

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3 a temperature sensing device attached to said keyboard; and

4 a controller for receiving a signal from said temperature sensing device,
5 said controller switching said fan on or off in response to said signal.

1 22. (Amended) The [heat removal system] apparatus of claim 20 further
2 comprising:

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3 a temperature sensing device attached to said heat generating device; and
4 a controller for receiving a signal from said temperature sensing device,
5 said controller switching said fan on or off in response to said signal.

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1 25. (New) An apparatus comprising:
2 a keyboard having a thermally conductive support plate, said support
3 plate having a substantially planar bottom surface;
4 a flat heat pipe attached to said bottom surface of said keyboard support
5 plate, a heat generating device thermally coupled to said flat heat pipe; and
6 a fan for producing air flow through a fan housing, said fan housing
7 thermally coupled to said flat heat pipe.

1 26. (New) The apparatus of claim 25 wherein said flat heat pipe covers at
2 least about one-half of the surface area of said bottom surface of said keyboard
3 support plate.

1 27. (New) The apparatus of claim 25 wherein said flat heat pipe covers
2 substantially the entire surface area of said bottom surface of said keyboard
3 support plate.

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1 28. (New) The apparatus of claim 25 wherein said flat heat pipe has a first
2 end and a second end, said heat generating device is thermally coupled to said